

WHAT IS CLAIMED IS:

1. A method for neutralizing the anti-coagulant effect of heparin comprising administering to a subject an effective amount of a heparin binding BPI protein product.

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2. A method of inhibiting angiogenesis comprising administering to a subject an amount of a BPI protein product effective to inhibit angiogenesis.

3. A method for neutralizing the anti-coagulant effect of heparin
10 in a fluid sample comprising contacting said sample with an effective amount of heparin binding BPI protein product.

4. The method of claim 2 wherein the angiogenesis inhibited is associated with ocular retinopathy.

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5. A method for inhibiting endothelial cell proliferation comprising administering to a subject an amount of a BPI protein product effective to inhibit proliferation.

20 6. A method of treating endometriosis comprising administering an amount of BPI to the endometrium effective to inhibit endothelial cell proliferation.

25 7. A method for contraception comprising administering to a subject an amount of a BPI protein product to the uterine lining effective to prevent endothelial cell proliferation associated with implantation of a fertilized ovum.

30 8. A method for inhibiting malignant tumor cell proliferation comprising administering to a subject an amount of a BPI protein product effective to inhibit proliferation.

9. The method of claim 8 wherein the malignant tumor is Kaposi's sarcoma.

10. A method for treating a chronic inflammatory disease state
5 comprising administering to a subject an amount of a BPI protein product effective to reduce inflammation.

11. The method of claim 10 wherein the chronic inflammatory disease is arthritis.

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12. The method of claim 11 wherein the arthritic inflammatory disease state is rheumatoid arthritis.

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13. The method of claim 11 wherein the arthritic inflammatory disease state treated is reactive arthritis.

14. The method of claims 1, 2, 5, 6, 7, 8 and 10 wherein the BPI protein product is a 23-25 kD amino-terminal fragment of bactericidal/permeability-increasing protein.

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15. A method of inhibiting angiogenesis comprising administering to a subject an amount of a BPI protein product effective to inhibit angiogenesis.

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16. The method of claim 15 wherein the angiogenesis inhibited is associated with ocular retinopathy.

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17. A method for inhibiting endothelial cell proliferation comprising administering to a subject an amount of a bactericidal/permeability increasing (BPI) protein product effective to inhibit proliferation of endothelial cells.

18. A method of treating endometriosis comprising administering an amount of BPI to the endometrium effective to inhibit endothelial cell proliferation.

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19. A method for contraceptioin comprising administering to a subject an amount of a BPI protein product to the uterine lining effective to prevent endothelial cell proliferation associated with implantation of a fertilized ovum.

10 20. A method of inhibiting malignant tumor cell proliferation comprising administering to a subject an amount of a BPI protein product effective to inhibit proliferation.

21. The method of claim 20 wherein the malignant tumor is Kaposi's sarcoma.

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22. The method of claim 17 wherein the BPI protein product is an approximately 21 to 25 kD amino-terminal fragment of BPI protein.